Polymer Degradation and Stability **32** (1991) 393–395

CONTENTS OF VOLUME 32

Number 1

Thermal Oxidation of Photochemically Cross-Linked Polyethylene . . . 1
N. I. LITSOV, V. B. JAKOVLEV & V. I. NIKOLAEVSKAJA (USSR)

Thermal Degradation of Radically Polymerized N-Phenylmaleimide . . . 9
C. T. VIJAYAKUMAR, K. LEDERER (Austria) &
A. KRAMER (Switzerland)

Effects of Gamma-Ray Irradiation on the Change of Characteristics of Polyurethane 17
HIDEHARU SHINTANI, HIROSHI KIKUCHI &
AKITADA NAKAMURA (Japan)

Determination of the Lifetime of Ethylene-Propylene Rubber Under the Simultaneous Action of Heat and Ionizing Radiation 31
GEORGE MARES, SANDA CIUTACU, PETRU BUDRUGEAC &
MAGDALENA CHIPARĂ (Romania)

Effect of Structure of Polymeric Hindered Amines on the Oxidation of Polymers: Part 2—Oxidation of Polypropylene 39
LIANG WENZHONG, QI JUYING, HU XINGZHOU &
XU HONGMEI (People's Republic of China)

Photo-Oxidation of Polyisoprene 51
CLAUDIE ADAM, JACQUES LACOSTE &
JACQUES LEMAIRE (France)

Surface Photo-stabilization of Styrene/2-(2-Hydroxy-5-Vinyl Phenyl)-2H-Benzotriazole Copolymers by the Use of Hindered Amine Light Stabilizer (HALS) . 71
F. A. BOTTINO, A. POLLICINO, A. RECCA (Italy),
D. PAWSON, R. D. SHORT & D. T. CLARK (UK)

Study of HALS by Magnetic Resonance 79
PAN JIANG-QING & SONG YAN (People's Republic of China)

Polaron Mechanism in the Thermal Degradation of Poly(vinyl chloride) . . 93
TRAN VAN HOANG & A. GUYOT (France)

Effect of Weathering on UV-Stabilized Low Density Polyethylene Films (LDPE) for a Multilayer Greenhouse Cover 105
NADIA KHRAISHI & AMIN AL-ROBAIDI (Jordan)

Polymer Degradation and Stability (**32**) (1991)—© 1991 Elsevier Science Publishers Ltd, England. Printed in Great Britain

Effect of Room Temperature Stretching on the Thermal Stability of Segmented Polyurethane Based on H_{12}MDI—A Note 115
K. SREENIVASAN (India)

The Use of Photo-conductive and Microwave Techniques for the Evaluation of Titanium Dioxide Pigment Activity in Polymeric Systems 119
N. S. ALLEN, Y. S. CHOW, F. F. THOMPSON, T. S. JEWITT &
M. R. HORNBY (UK)

Number 2

Aspects of Poly(ethylene terephthalate) Degradation for Archival Life and Environmental Degradation 131
M. EDGE, M. HAYES, M. MOHAMMADIAN, N. S. ALLEN,
T. S. JEWITT (UK), K. BREMS (Belgium) &
K. JONES (UK)

Peroxy Acids in Photo-oxidized Polypropylene 155
A. ZAHRADNÍČKOVA, J. SEDLÁŘ &
D. DASTYCH (Czechoslovakia)

Zinc Hydroxystannate: A Combined Flame Retardant and Smoke Suppressant for Halogenated Polyesters 177
P. A. CUSACK, M. S. HEER & A. W. MONK (UK)

Degradation and Cross-Linking of Polyurethane Irradiated by Gamma-Rays . 191
HIDEHARU SHINTANI & AKITADA NAKAMURA (Japan)

Thermal Degradation Behaviour of Sisal Fibers Grafted with Various Vinyl Monomers 209
MAGDY W. SABAA (Egypt)

Inhibiting Action of Polymeric Hindered Amines on the Oxidation of 1,4-Polybutadiene by Singlet Oxygen. 219
PAN JIANG-QING (People's Republic of China)

Migration of 4-Substituted 2-Hydroxy Benzophenones in Low Density Polyethylene: Part I—Diffusion Characteristics 231
S. AL-MALAIKA, M. D. R. J. GOONETILEKA & G. SCOTT (UK)

^{31}P-CIDNP Investigations of the Reaction of *O,O*-Dialkyl Dithiophosphoric Acid with Cumyl Hydroperoxide 249
H. KOMBER, G. GROßMANN, A. PETR (FRG) &
D. G. POBEDIMSKII (USSR)

Calendar of Events 261

Number 3

On the Thermolysis of Poly(Chloroalkyl Methacrylates) and Poly(Chloroalkyl Acrylates): Part 1—Poly(2,2,2-Trichloroethyl Methacrylate). 265
I. POPOVIĆ (Yugoslavia), J. SONG, CH.-H. FISCHER, L. KATSIKAS, G. HÖHNE (FRG), J. VELIČKOVIĆ (Yugoslavia) & W. SCHNABEL (FRG)

Photo-degradation of Blends of Polycarbonate and Poly(Methyl Methacrylate) . 285
ZENJIRO OSAWA & YASUSHI FUKUDA (Japan)

Flame Retardance and Smoke Suppression of Polychloroprene Containing Inorganic Tin Compounds 299
P. R. HORNSBY, P. A. MITCHELL & P. A. CUSACK (UK)

Study of the Mechanism of the Synergistic Action of Nickel Stearate and 2,2'-Thiobis-(4-Tert-octylphenol) in the Photo-oxidation of Polypropylene. . . 313
PAN JIANGQING, LI JIANXING & WAN DIANXUN (People's Republic of China)

Thermal Dehydrochlorination and Stabilisation of Poly(Vinyl Chloride) in Solution: Part VII—Quaternary Stabiliser System with Two Metal Soaps, Dihydropyridine and β-Diketone. 321
A. GUYOT, N. BENSEMRA & TRAN VAN HOANG (France)

Infrared Studies of Carbons. XVI. The Carbonization of an Aliphatic Allyl Polycarbonate 331
A. S. POLITOU, C. MORTERRA & M. J. D. LOW (USA)

The Weathering Characteristics of ECOLYTE Polystyrene: Part I—A Photo-degradable Copolymer Masterbatch and Blends with Polystyrene . . . 357
S. A. MAY, E. C. FUENTES & N. SATO (Canada)

Quinone-sensitized Photo-polymerization of Methyl Methacrylate in Binary Solvent Systems 369
HITOSHI KUBOTA & HISAKAZU SUZUKI (Japan)

A Critical Comparison of Methods for Hydroperoxide Measurement in Oxidized Polyolefins 377
D. J. CARLSSON & J. LACOSTE (Canada)

Book Review 387

Calendar of Events 389